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apply. Write postal to
DR. H. B. BATTLE,
Raleigh, N. C.

January 15, 1892.

North Carolina

Agricultural Experiment Station,

Bulletin No. 82.

FERTILIZER ANALYSES, AND THE FERTILIZER CONTROL,
WITH ALL ANALYSES MADE IN SPRING AND FALL OF 1891.

Publications will be sent to any address in North Carolina upon application.

N. C. COLLEGE OF AGRICULTURE AND MECHANIC ARTS,

NORTH CAROLINA

AGRICULTURAL EXPERIMENT STATION

AND STATE WEATHER SERVICE,

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FERTILIZER ANALYSES, AND THE FERTILIZER CONTROL, INCLUDING ALL ANALYSES MADE IN THE SPRING AND FALL OF 1891.

H. B. BATTLE, *Director*

To meet a demand for the completed list of all fertilizers on sale in North Carolina and analyzed during the year 1891, this Bulletin is issued in advance of the opening of the Spring season of 1892. It contains results of analyses of all samples taken in both Spring and Fall of 1891.

For the Spring season of 1892, results of analyses will be published every two weeks, but will only be mailed to those specially applying for them. One application only is necessary for the whole season.

VALUATIONS FOR 1891 were the same as for 1890, and are—

For Available Phosphoric Acid	5 cents per pound.
For Ammonia	13 " " "
For Potash	5 " " "

These figures mean the *actual retail cost for cash of the ingredients in bags at the seaboard.* It does not include the cost of mixing these ingredients, nor of branding the bags, nor of handling the mixed fertilizer, nor any expenses contingent upon the management of an extensive fertilizer manufactory. A farmer when he buys a fertilizer, by glancing at the commercial valuation, as given by the Experiment Station, can see what is *the actual cash worth of the unmixed ingredients composing it at the seaboard.* For interior points, freight to those points from the seaboard must be added. For convenience in calculating the value at interior points a correct table of freight rates is given on page 5.

As a matter of interest, it may be stated that the *valuations for 1892* will remain the same as 1891. While there have been advances in the cost of ingredients, this advance has not been sufficient to render the above valuations inoperative. They represent the cost as heretofore of these ingredients at the seaboard in small lots for cash, and approximately would be the cost to farmers or small manufacturers in purchasing the ingredients. When purchased in large lots at wholesale, the price would be even less than those used. For mixing, branding, and incidental manufacturing costs, $2.60 per ton would be about the figure to add to the commercial valuation per ton to arrive at the approximate cost of the completed fertilizer to the manufacturers ready for shipment at the seaboard. A farmer can thus ascertain by knowing the actual cost, what over and above this cost is charged him for profit, handling, agent fees, etc.

Analyses will be made for farmers from samples that they take from lots of not less than five tons, provided the samples are taken according to printed forms which will be supplied on application to the Experiment Station. If it is desired, the name of the brand and of the manufacturer and the guaranteed claim may be omitted at the time the sample is sent, but must be returned to the Station after the analysis is received.

As will be seen by the digest of the laws given below, any fertilizer falling materially below the guarantee is liable to seizure and con-

demnation. As in many cases the analysis is not completed before the particular lot is sold, the only way to reach such a special case when the grade is too far below the guarantee, is to publish the results in the BULLETIN, so that the public can be warned in the future. It will be seen that several brands were treated in this way in this BULLETIN.

DIGEST OF FERTILIZER LAWS IN FORCE IN NORTH CAROLINA, 1892.

In order to give a short and concise statement of all laws now in operation in regard to the fertilizer inspection and control, the following carefully prepared digest of existing laws is inserted, as a guide to the fertilizer trade, and for the information of the farmers:

No manipulated guanos, superphosphates, commercial fertilizers or other fertilizing material shall be sold or offered for sale unless a tonnage charge of twenty-five cents per ton has been paid. Each barrel, package or bag shall have attached a tag representing this fact, which tags shall be issued by the Commissioner of Agriculture according to regulations prescribed by the Department of Agriculture. The Department of Agriculture has power at all times to have samples collected of any fertilizer or fertilizing material on sale, which must be taken from at least ten per cent. of the lot selected. These samples are taken from the goods in the hands of dealers after they are shipped from the manufactories, and accordingly represent the true grade of fertilizers offered for sale.

Every package of fertilizer offered for sale must have thereon a plainly printed label, a copy of which must be filed with the Commissioner of Agriculture, together with a true sample of the fertilizer which it is proposed to sell, at or before the shipment of such fertilizer into the State, and which label must be uniformly used and not changed during the year. This label must set forth the name, location and trade-mark of the manufacturer, also the chemical composition of contents, and real percentage of the ordinary ingredients, together with date of analyzation, and that all charges have been paid. There must be no variation in the guaranteed percentages, but the bags must be branded with the exact chemical composition of the contents.

It is a misdemeanor and a fine of $10 for each bag, for an agent or dealer to offer for sale any such fertilizer or fertilizing materials not properly tagged, or a consumer to remove it, or a railroad agent to deliver it. Goods kept over from last season must be tagged to represent this fact, and all dealers are required to report the amount on hand at the close of the fiscal year on November 30th. No fertilizers can be sold with a content less than 8 per cent. of available phosphoric acid, 2 per cent. of ammonia and 1 per cent. of potash. The following articles are exempt: Land plaster, agricultural lime, oyster shell lime, marl, and cotton-seed meal when not sold as a fertilizer; also materials in bulk, when sent to manufacturers for mixing in fertilizers.

Any fertilizer that is spurious and does not contain ingredients as represented by the label, is liable to seizure, and after being established on trial, its value is recoverable by the Board of Agriculture. Any person who offers for sale fertilizers or fertilizing material without having attached thereto labels as provided by law is liable to a fine of $10 for each separate package, one-half, less the cost, going to the party suing, and the remainder to the Department; and if such fertilizer is condemned, the Department makes analysis of the same and has printed labels giving the true chemical ingredients of the same put on each package, and fixes the commercial value at which it may be sold. The Department of Agriculture can require agents of railroads and steamboat companies to furnish monthly statements of the quantity of fertilizers transported by them. The Experiment Station analyzes samples taken by the official inspectors, and publishes the results when deemed needful.

In the tables following the analyses of samples taken during the Fall season of 1891 are designated by the letter "F." All other analyses are from samples taken before the Fall.

FREIGHT RATES FROM THE SEABOARD TO INTERIOR POINTS.

CORRECTED TO JANUARY 1ST, 1892, FROM THE PUBLISHED RATES OF THE ASSOCIATED RAILWAYS OF VIRGINIA AND THE CAROLINAS.

In Car loads, of not less than 10 tons each, per ton of 2,000 pounds. Less than Car load, add 20 per cent.

DESTINATION.	From Wilmingt'n, N. C.	From Norfolk and Portsm'uth, Va.	From Charleston, S. C.	From Richmond, Va.
Asheville	$4 00	$4 60	$4 60	$4 00
Chapel Hill	3 20	3 80	4 40	3 20
Charlotte	3 00	3 20	3 20	3 20
Clayton	2 70	3 00	4 20	3 00
Dallas	3 40	4 00	3 40	3 50
Davidson College	3 90	4 50	4 40	3 90
Dunn	2 40	3 00	3 95	3 00
Durham	3 00	3 00	4 20	3 00
Elm City	2 40	2 90	3 90	2 90
Fair Bluff	2 10	2 80	2 85	3 80
Fayetteville	1 60	3 00	3 55	3 00
Forestville	3 30	3 00	4 30	3 00
Gastonia	3 40	4 10	3 40	3 60
Gibson's	2 70	4 00	4 00	4 00
Goldsboro	2 10	3 00	3 65	3 00
Greensboro	3 00	3 00	3 80	3 00
Hamlet	2 65	3 20	4 20	3 20
Henderson	3 30	3 00	4 30	3 00
Hickory	4 00	4 60	4 60	4 00
Kinston	2 20	2 50	3 75	2 50
Laurel Hill	2 60	3 80	4 00	3 80
Laurinburg	2 60	3 80	4 00	3 80
Liberty	2 50	3 60	3 80	3 60
Louisburg	3 30	3 00	4 30	3 00
Lumberton	2 20	3 80	3 70	3 80
Madison	3 20	3 20	4 20	3 20
Matthews	3 00	3 20	3 20	3 20
Maxton	2 20	3 80	3 50	3 80
Monroe	3 00	3 20	3 20	3 20
Morven	2 70	4 00	2 70	4 00
Mt. Airy	3 20	3 20	4 20	3 20
Newbern	2 40	3 30	3 95	3 30
Oxford	3 50	3 60	4 50	3 00
Pineville	3 20	3 95	3 20	3 45
Pittsboro	2 70	3 50	4 40	3 30
Raleigh	2 70	3 00	4 20	3 00
Reidsville	3 75	3 00	4 50	2 40
Rockingham	2 70	3 20	4 00	3 20
Rutherfordton	3 40	3 65	3 40	3 65
Salisbury	3 50	3 80	4 20	3 20
Sanford	2 20	3 00	3 80	3 00
Selma	2 40	3 00	3 95	3 00
Shelby	3 40	3 60	3 40	3 60
Siler City	2 40	3 60	3 80	3 60
Smithfield	2 40	3 00	3 95	3 00
Statesville	3 20	3 80	4 40	3 20
Tarboro	2 00	2 00	3 55	2 50
Wadesboro	2 70	3 20	2 70	3 20
Walnut Cove	3 20	3 20	4 20	3 20
Warsaw	2 00	3 20	3 55	3 20
Weldon	2 45	2 00	4 00	2 00
Wilson	2 40	2 90	3 90	2 90
Winston-Salem	3 20	3 20	4 40	3 20

Station Number.	Name of Brand.	Address of Manufacturer or Agent.	Sampled at	
6718 / F7022	Acid Phosphate Dissolved S. C. Bone,	Allison & Addison, Richmond, Va.	Kinston ..... Lexington.....	1
6776 / 6824	Acme Acid Phosphate.....	Acme Mfg. Co., Wilmington, N. C...	Jonesboro ..... Cherryville.....	2
6676 / 6799	Acme Fertilizer.....	Acme Mfg. Co., Wilmington, N. C...	Wadesboro..... LaGrange.....	3
6660	Americus Brand Ammoniated Bone Superphosphate,	Williams & Clark Fertilizer Co., New York.	Wilmington	4
6694 / 6866	Ammoniated Cotton Fertilizer, 2½ per cent.,	Navassa Guano Co., Wilmington, N. C.	McFarlan.....	5
6696	Ammoniated Cotton Fertilizer, 2 per cent.,	Navassa Guano Co., Wilmington, N. C.	McFarlan.....	6
6708	Ammoniated Dissolved Bone Phosphate,	H. S. Miller & Co., Newark, N. J.....	Wilson.....	7
6698 / 6798	Ammoniated Soluble Navassa Guano,	Navassa Guano Co., Wilmington, N. C.	Dunn ..... Lumberton.....	8
6690	Ammoniated X X Roanoke Superphosphate,	Benj. H. Read, Baltimore, Md.....	Wake Forest.....	9
6740	Anchor Brand Fertilizer.....	Allison & Addison, Richmond, Va.	Durham	10
6739 / 6877	Anchor Brand for Tobacco.....	Allison & Addison, Richmond, Va.	Durham ..... Reidsville	11
6729	Ashepoo Acid Phosphate	Ashepoo Phosphate Co., Charleston, S. C.	Monroe.....	12
6723	Ashepoo Fertilizer.....	Ashepoo Phosphate Co., Charleston, S. C.	Monroe.....	13
6812	Ashley Acid Phosphate..	Ashley Phosphate Co., Charleston, S. C.	Concord	14
6802	Atlantic Acid Phosphate.....	Atlantic Phosphate Co., Charleston, S. C.	Wadesboro.....	15
6663 / 6749	Baker's Standard Guano.....	Chemical Company of Canton, Baltimore, Md.	Wilmington .. .. Charlotte	16
6813	Baltimore Soluble Bone.....	Baltimore Guano Company, Baltimore, Md.	Concord	17
6743	Baugh's Animal Bone and Potash Compound,	Baugh & Son's Co., Norfolk, Va.....	Monroe.....	18
6779	Baugh's Bone Meal, warranted	Baugh & Son's Co., Baltimore, Md...	Gibson	19
6760	Baugh's Dissolved Animal Bone,	Baugh & Son's Co., Norfolk, Va.	Scotland Neck..	20
6753	Baugh's High Grade Ammoniated Phosphate,	Baugh & Son's Co., Norfolk, Va.....	Wilmington	21
6807 / 6867	Baugh's High Grade Dissolved S. C. Rock,	Baugh & Son's Co., Baltimore, Md...	Elizabeth City.. Murfreesboro	22
6845 / F7149	Baugh's Raw Bone Superphosphate of Lime,	Baugh & Son's Co., Baltimore, Md...	Littleton ..... Ashboro	23

	Water.	Insoluble Phos. Acid.	Soluble Phos. Acid.	Reverted Phos. Acid.	Total Avai. Phos. Acid.		Nitrogen.	Equivalent to Ammonia		Potash.		Rel. Com. Val. Per Ton of Ingredients at Seaboard.	
					Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.	Guaranteed.	Found.
1	15.29	2.72	10.09	2.15	12.24	12	.....	.....	.....	.....	.....	$ 12.00	$ 12.24
	16.17	2.11	7.75	3.74	11.49		.....	.....	.....	.....	.....		11.49
2	16.41	2.07	9.44	2.50	11.94	12	.....	.....	.....	.....	.....	12.00	11.94
	15.58	2.61	9.45	2.36	11.81		.....	.....	.....	.....	.....		11.81
3	12.24	.78	6.42	1.83	8.25	8	2.67	3.24	3	2.42	2½	18.30	19.09
	12.67	.82	5.85	2.31	8.16		2.70	3.28		2.73			19.42
4	15.97	1.19	7.36	2.20	9.56	8	2.03	2.50	2	1.40	1	14.20	17.46
5	13.50	1.91	8.80	2.74	11.54	9	1.67	2.03	2½	1.37	1¼	16.75	18.19
	11.13	1.71	8.17	3.46	11.63		1.94	2.36		1.41			19.18
6	13.90	2.17	7.96	2.94	10.90	9	2.02	2.45	2	1.66	1¼	15.45	18.93
7	4.10	2.52	4.16	5.99	10.15	8	1.96	2.38	2	2.92	2	15.20	19.26
8	13.09	1.85	7.71	3.12	10.83	9	2.19	2.66	2¾	1.55	1¼	17.40	19.30
	14.04	1.65	7.34	3.84	11.18		2.06	2.50		1.48			19.16
9	13.04	2.09	7.39	1.57	8.96	8	1.86	2.26	2	1.39	1¼	14.45	16.23
10	10.95	4.09	6.63	1.82	8.45	8	1.70	2.06	2	1.54	1½	14.70	15.35
11	12.98	2.56	7.47	2.11	9.58	8½	2.09	2.54	3	1.47	1½	17.80	17.65
	14.14	3.24	6.58	1.81	8.39		2.58	3.13		1.61			18.14
12	12.94	4.26	7.75	2.82	10.57	10	.....	.....	.....	.....	.....	10.00	10.57
13	14.17	1.80	7.37	2.20	9.57	8	2.02	2.45	2	1.69	1	14.20	17.63
14	14.31	2.42	8.30	2.79	11.09	10	.....	.....	.....	.79	1	11.00	11.88
15	14.95	1.27	8.98	2.98	11.96	10	.....	.....	.....	.83	1	11.00	12.79
16	12.50	1.77	7.80	.96	8.76	8	1.82	2.21	2	2.40	2	15.20	16.91
	15.91	1.65	8.12	1.05	9.17		1.67	2.03		2.25			16.70
17	12.97	2.20	8.06	3.34	11.40	12	.....	.....	.....	.....	.....	12.00	11.40
18	14.69	2.52	7.14	1.66	8.80	8	1.91	2.32	2	1.84	2	15.20	16.67
19	7.35	.....	See f	oot n	ote, p.	18	3.70	4.49	4	.....	.....	10.40	11.67
20	6.13	4.85	2.00	11.67	13.67	10	2.85	3.46	3	.....	.....	17.80	22.67
21	10.82	2.44	7.60	3.03	10.63	9	4.08	4.95	5	.....	.....	22.00	23.50
22	13.20	1.88	9.45	2.68	12.13	13½	.....	.....	.....	.....	.....	13.50	12.13
	15.57	1.74	10.11	2.27	12.38		.....	.....	.....	.....	.....		12.38
23	12.76	4.59	6.56	1.39	7.95	8	1.95	2.37	2	.....	.....	13.20	14.11
	16.43	4.31	4.68	2.18	6.86		2.13	2.59		.....	.....		13.59

Station Number.	Name of Brand.	Address of Manufacturer or Agent.	Sampled at	
6764 6825	Baugh's Special Cotton Guano	Baugh & Son's Co., Norfolk, Va	Monroe ..... Gibson.....	24
6714	Baugh's Special Substitute (6 per cent. guano) and Special Tobacco Fertilizer,	Baugh & Son's Co., Baltimore, Md..	Kinston	25
6677	Beef, Blood aud Bone Fertilizer,	S. W. Travers & Co., Richmond, Va.	Wadesboro.....	26
F7015	Bone and Potash	Jas. G. Tinsley & Co., Richmond, Va	Ruffin	27
6870 F7150	Bone Meal.....	Dundas & Lamb, Jamestown, N. C.	Greensboro ..... Greensboro.....	28
F7013	Bone, Pure Raw Animal.....	Jas. G. Tinsley & Co., Richmond, Va	Ruffin	29
6821	Bradley's Patent Superphosphate of Lime,	Bradley Fertilizer Company, Boston, Mass.	Franklinton	30
6809	Bright Leaf Tobacco Fertilizer	Lorentz & Rittler, Baltimore, Md...	Centre Bluff	31
6887	British Mixture.....	Slingluff & Co., Baltimore, Md.....	Winston.....	32
6873	Broad-leaf Tobacco Guano.....	Reidsville Fertilizer Co., Reidsville, N. C.	Reidsville	33
F7146	Capital Cotton Fertilizer.....	S. W. Travers & Co., Richmond, Va.	Albemarle.....	34
6719 6741 6850	"Capital" Dissolved S. C. Bone,	S. W. Travers & Co., Richmond, Va.	Kinston ..... Monroe ..... Greenville.....	35
6840	Cerealite.....	Boykin, Carmer & Co., Baltimore, Maryland.	Washington.....	36
6728	Champion Acid Phosphate.....	Richmond Chemical Works, Richmond, Va.	Monroe..	37
6762 F7020	Charlotte Acid Phosphate	Charlotte Oil and Fertilizer Company, Charlotte, N. C.	Charlotte..... Salisbury.....	38
6748 6783 F7145	Charlotte Ammoniated Fertilizer,	Charlotte Oil and Fertilizer Company, Charlotte, N. C.	Charlotte..... Davidson Col'ge China Grove	39
6792	Chesapeake Ammoniated Dissolved Bone,	Chesapeake Guano Company, Baltimore, Md.	Shelby.....	40
6675	Chesapeake Guano	Chesapeake Guano Company, Baltimore, Md.	Selma	41
6886	Danville High Grade, for Tobacco,	John S. Reese & Co., Baltimore, Md.	Winston	42
6861	Detrick's Acid Phosphate	Bradley Fertilizer and Chemical Company, Baltimore, Md.	Edenton	43
6862	Detrick's Ammoniated Bone Superphosphate,	Louis F. Detrick, Baltimore, Md.....	Edenton	44
6841	Diamond Acid Phosphate	E. H. & J. A. Meadows Co., Newbern, N. C.	Kinston	45
F7019 F7151	Diamond Soluble Bone.....	Walton & Whann Company, Wilmington, Del.	Concord ..... Ashboro	46

	Water.	Insoluble Phos. Acid.	Soluble Phos. Acid.	Reverted Phos. Acid.	Total Avail. Phos. Acid.		Nitrogen.	Equivalent to Ammonia		Potash.		Rel. Com. Val. Per Ton of Ingredients at Seaboard.	
					Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.	Guaranteed.	Found.
24	12.64	3.68	6.45	1.63	8.08	8	1.72	2.09	2	.....	.....	$ 13.20	$ 13.51
	13.63	3.06	6.93	1.40	8.33		1.85	2.25		.....	.....		14.18
25	12.10	2.39	6.05	2.23	8.28	7	4.22	5.12	5	2.52	2½	22.50	24.11
26	13.50	1.94	7.25	1.15	8.40	8	2.05	2.49	2	1.38	1	14.20	16.25
27	16.70	.93	6.33	3.46	9.79	10	.....	.....	.....	2.33	2	12.00	12.12
28	7.51	See	foot	note,	p. 18	.....	3.84	4.66	3½	.....	.....	9.10	12.12
	9.25	"	"	"	"	.....	4.07	4.94		.....	.....		12.84
29	6.70	See	foot	note,	p. 18	.....	2.66	3.23	3	.....	.....	7.80	8.39
30	13.42	2.67	7.23	2.42	9.65	9.45	2.24	2.72	2.40	1.60	1	16.69	18.32
31	11.93	2.62	7.04	1.50	8.54	8	2.32	2.82	2½	2.51	4	18.50	18.38
32	11.02	1.64	7.73	1.63	9.36	8	1.99	2.42	2	2.33	2	15.20	17.98
33	8.84	3.63	5.33	1.71	7.04	8.31	2.26	2.74	3	3.45	3	19.11	17.61
34	12.99	1.98	5.28	3.36	8.64	8	1.65	2.00	2	3.66	2	15.20	17.50
35	14.83	1.68	8.51	2.05	10.56	10	.....	.....	.....	.....	.....	10.00	10.56
	16.19	2.55	6.45	2.81	9.26		.....	.....	.....	.....	.....		9.26
	15.49	1.68	7.98	2.56	10.54		.....	.....	.....	.....	.....		10.54
36	5.25	.....	.....	.....	.....	.....	7.18	8.72	9	.....	.....	23.40	22.67
37	14.04	1.52	7.52	2.56	10.08	10	.....	.....	.....	.....	.....	10.00	10.08
38	18.76	.27	11.88	1.45	13.33	13	.....	.....	.....	.....	.....	13.00	13.33
	12.70	.59	10.49	3.84	14.33		.....	.....	.....	.....	.....		14.33
39	13.46	.28	6.98	1.89	8.87	8	2.61	3.17	2½	2.33	1½	16.00	19.44
	13.01	.43	5.41	2.87	8.28		2.56	3.10		2.96			19.30
	10.25	1.10	6.61	2.24	8.85		2.24	2.72		2.28			18.20
40	13.10	1.85	7.16	1.93	9.09	9	1.91	2.32	2¼	1.21	1.40	16.25	16.33
41	13.53	1.93	7.51	1.63	9.14	9	1.96	2.38	2¼	1.54	1.40	16.25	16.87
42	10.57	3.72	5.58	3.65	9.23	8½	2.74	3.33	3	2.57	2½	17.80	20.46
43	14.62	1.91	10.45	2.07	12.52	13	.....	.....	.....	.....	.....	13.00	12.52
44	11.62	2.16	7.71	1.46	9.17	9	1.64	1.99	2	1.16	1	15.20	15.50
45	14.67	1.85	9.76	2.91	12.67	12	.....	.....	.....	.....	.....	12.00	12.67
46	15.05	1.01	10.91	3.25	14.16	13	.....	.....	.....	.....	.....	13.00	14.16
	13.95	.67	10.99	3.46	14.45		.....	.....	.....	.....	.....		14.45

Station Number.	Name of Brand.	Address of Manufacturer or Agent.	Sampled at	
6885	Dissolved Bone and Potash..	Boykln, Carmer & Co., Baltimore, Md.	Burlington	47
6751 6823	Durham Ammoniated Fertilizer,	Durham Fertilizer Co., Durham, N. C.	Charlotte Shelby..	48
6909	Durham Ammoniated Fertilizer with Peruvian Guano,	Durham Fertilizer Co., Durham, N. C.	Dabney	49
6716	Durham Bull High Grade Acid Phosphate,	Durham Fertilizer Co., Durham, N. C.	Clinton	50
6863	Early Trucker	Lazaretto Guano Co., Baltimore, Md.	Washington	51
6780	Edisto Acid Phosphate	Edisto Fhosphate Co., Charleston, S. C.	Mt. Holly	52
6702 F7033	Empire Guano	Rasin Fertilizer Co., Baltimore, Md	Dunn Conover	53
6793	Etiwan Ammoniated Superphosphate,	Etiwan Phosphate Co., Charleston, S. C.	Shelby	54
6789	Etiwan Dissolved Bone	Etiwan Phosphate Co., Charleston, S. C.	Shelby	55
6747	Eureka Bone Superphosphate of Lime,	Atlantic and Virginia Fertilizing Co., Richmond. Va.	Pineville	56
6725	Excellent Georgia Standard Guano,	Wilcox & Gibbs Guano Co., Charleston, S. C.	Matthews'	57
6688	Excellenza Soluble Guano	John S. Reese & Co., Baltimore, Md	Wake Forest	58
6670	Farmers' Bone Fertilizer	Tarboro Oil Mills, Tarboro, N. C	Selma	59
6707 6733 6828	Farmers' Friend Fertilizer	Old Dominion Guano Co., Norfolk, Va.	Wilson Pineville Lexington	60
6815 6876	Farmers' Friend High Grade Special Tobacco Fertilizer,	Old Dominion Guano Co., Norfolk, Va.	Rockford Milton	61
6700	Farmers' Special Cotton Compound,	F. S. Royster & Co., Tarboro, N. C	Dunn	62
6721 6775 6804	Fish Scrap	Dey Bros., Beaufort, N. C	Wadesboro Fayetteville Raleigh	63
6659	Game Guano	Baltimore Guano Co., Baltimore, Md.	Wilmington	64
6775	Gem Acid Phosphate	Chemical Company of Canton, Baltimore, Md.	Carthage	65
6655 6768 6852	Gibbs & Co.'s High Grade Ammoniated Phosphate,	E. J. Powers, Wilmington, N. C	Wilmington Kinston McFarlan	66
6811	Gold Dust Guano	W. H. Holmes & Dawson, Norfolk, Va.	Plymouth	67
6684	High Grade Acid Phosphate	Wilcox & Gibbs Guano Co., Charleston, S. C.	Morven	68

	Water.	Insoluble Phos. Acid.	Soluble Phos. Acid.	Reverted Phos. Acid.	Total Avail. Phos. Acid.		Nitrogen.	Equivalent to Ammonia		Potash.		Rel. Com. Val. Per Ton of Ingredients at Seaboard.	
					Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.	Guaranteed.	Found.
47	15.17	1.78	8.00	2.05	10.05	9	1.48	1.80	2	2.37	2	$ 16.20	$ 17.10
48	12.37	2.01	6.50	2.17	8.67	8	1.47	1.78	2	1.42	1½	14.70	14.72
	11.40	3.65	5.05	2.43	7.48		1.60	1.94		1.80			14.32
49	13.75	1.65	5.59	1.32	6.91	8	1.94	2.36	2½	2.02	2	16.50	15.07
50	11.57	.86	8.58	3.19	11.77	10	.....	.....	.....	.....	.....	10.00	11.77
51	15.05	1.92	5.08	1.97	7.05	7	3.68	4.47	5	3.42	4	24.00	22.09
52	14.26	1.91	8.79	2.44	11.23	10½	.....	.....	.....	1.64	1½	12.00	12.87
53	16.76	1.60	7.60	1.35	8.95	9	2.13	2.59	2½	2.33	1¾	17.25	18.01
	13.68	5.00	6.14	2.02	8.16		2.13	2.59		1.90			16.79
54	13.18	3.68	8.23	2.19	10.42	8	1.61	1.95	2	1.43	1½	14.70	16.92
55	13.24	4.74	10.81	3.42	14.23	13	.....	.....	.....	.....	.....	13.00	14.23
56	14.00	1.32	7.59	1.63	9.22	8	1.80	2.19	2	2.08	2	15.20	16.99
57	12.47	4.25	5.69	2.61	8.30	8	1.68	2.04	2	2.15	1	14.20	15.75
58	13.15	.75	4.09	6.55	10.64	8½	2.00	2.43	2¼	1.62	1.20	15.55	18.58
59	14.63	.63	6.84	1.68	8.52	8	1.84	2.23	2	2.41	2	15.20	16.76
60	18.82	1.23	6.49	2.05	8.54	8	1.98	2.40	2	2.30	2	15.20	17.08
	13.57	1.68	5.33	2.34	7.67		1.54	1.87		2.09			14.62
	15.30	.99	7.96	1.34	9.30		1.70	2.06		1.83			16.49
61	15.73	2.79	5.39	2.12	7.51	8	2.64	3.20	3	3.13	3	18.80	18.96
	16.78	1.38	6.01	1.90	7.91		2.73	3.31		3.01			19.53
62	14.74	.63	6.50	2.21	8.71	8	1.75	2.12	2	2.13	1½	14.70	16.35
63	8.78	.....	.....	.....	.....	.....	7.62	9.25	10	.....	.....	26.00	24.05
	9.00	.....	.....	.....	.....	.....	6.92	8.40		.....	.....		21.84
	8.57	.....	.....	.....	.....	.....	7.38	8.96		.....	.....		23.30
64	12.08	2.34	7.48	1.28	8.76	8	1.81	2.20	2	2.44	2	15.20	16.92
65	16.30	1.01	10.72	1.92	12.64	12½	.....	.....	.....	.....	.....	12.50	12.64
66	10.40	.63	6.93	2.38	9.31	8	1.97	2.39	2½	2.01	1	15.50	17.53
	11.94	.97	6.50	2.65	9.15		1.81	2.20		1.69			16.56
	11.90	.79	6.74	2.35	9.09		2.35	2.85		2.04			18.54
67	13.28	2.98	5.63	2.01	7.64	8	1.65	2.00	2	2.16	2	15.20	15.00
68	14.84	1.87	11.13	2.21	13.34	13	.....	.....	.....	.....	.....	13.00	13.34

Station Number.	Name of Brand.	Address of Manufacturer or Agent.	Sampled at	
6674 6800	High Grade Premium Guano	Geo. L. Arps & Co., Norfolk, Va.	Selma Fayetteville	69
6910	Hill's Bright Tobacco Guano.	John R. Hill, South Boston, Va	Roxboro	70
6859	Imperial Cotton Grower	Imperial Guano Co., Norfolk, Va.	Roxobel	71
6854	Imperial Guano for Potatoes.	Imperial Guano Co., Norfolk, Va.	Roxobel	72
6752	Imperial Soluble Guano	Imperial Fertilizer Co., Charleston, S. C.	Pineville	73
6687 6766	John Merryman & Co.'s Ammoniated Bones,	John Merryman & Co., Baltimore, Md.	Wilmington Lexington	74
6685	Kainit, Genuine German	Wilmington Compress Co., Wilmington, N. C.	Selma	75
6830	Kainit, Genuine German	E. H. & J. A. Meadows Co., Newbern, N. C.	La Grange	76
6686	Kainit, Pure German	R. N. Sweat, Wilmington, N. C.	Wadesboro	77
6756	Kainit, German	E. J. Powers, Wilmington, N. C.	Wilmington	78
6757	Kainit, Genuine German.	Old Dominion Guano Co., Norfolk, Va.	Scotland Neck	79
6761	L. & R. Acid Phosphate	Lorentz & Rittler, Baltimore, Md.	Monroe	80
6705	L. & R. Ammoniated Guano.	Lorentz & Rittler, Baltimore, Md.	Dunn	81
6713	Latimer Cotton Fertilizer	Acme Manf'g Co., Wilmington, N. C	Clinton	82
6679 6763 6805	Lazaretto Acid Phosphate	Lazaretto Guano Co,, Baltimore, Md.	Franklinton Monroe Plymouth	83
6710 6738 6827	Lazaretto Crop Grower	Lazaretto Guano Co., Baltimore, Md.	Wilson Fayetteville Washington	84
6711	Lazaretto Special Tobacco Fertilizer,	Lazaretto Guano Co., Baltimore, Md.	Tarboro	85
6831	Lee's Prepared Agricultural Lime,	A. S. Lee, Richmond, Va	Mt. Airy	86
6678 F7029	Lister's Ammon'ted Dissolved Bona Phosphate,	Lister's Agricul. Chemical Works, Newark, N. J.	Wilmington Concord.	87
6744 F7030	Lister's Success Standard Fertilizer,	Lister's Agricul. Chemical Works, Newark, N. J.	Monroe High Point	88
6657	Long's Prepared Chemicals,	John S. Reese & Co., Baltimore, Md	Wilmington	89
6839 6869	Meadows' Special Guano for all Crops,	E. H. & J. A. Meadows Co., Newbern, N. C.,	Kinston Washington	90
6737	McKinnon's 3, 10 and 2 Ammoniated Fertilizer,	Baugh & Son's Co., Norfolk, Va.	Wilmington	91
6703	National Fertilizer	S. W. Travers & Co., Richmond, Va	Dunn	92

	Water.	Insoluble Phos. Acid.	Soluble Phos. Acid.	Reverted Phos. Acid.	Total Avail. Phos. Acid.		Nitrogen.	Equivalent to Ammonia		Potash.		Rel. Com. Val. Per Ton of Ingredients at Seaboard.	
					Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.	Guaranteed.	Found.
69	17.50	.95	7.00	2.00	9.00	8	2.19	2.66	2	1.83	1½	$ 14.70	$ 17.75
	19.22	.50	6.27	1.78	8.05		1.80	2.19		1.70			15.44
70	15.30	1.10	7.89	1.94	9.83	8½	2.03	2.46	2¼	2.70	2¼	16.60	18.93
71	14.39	2.61	5.88	2.76	8.64	8	1.97	2.39	2	2.07	2	15.20	16.92
72	8.35	6.04	1.64	5.10	6.74	6	5.11	6.20	5	5.40	5	34.40	28.26
73	13.30	1.78	8.19	1.38	9.57	8	1.65	2.00	2	1.24	1	14.20	16.01
74	14.19	2.48	8.14	1.52	9.66	8	1.92	2.33	2	2.50	1	14.20	18.22
	10.79	2.24	8.02	1.69	9.71		1.97	2.39		2.05			17.97
75	6.94	.....	.....	.....	.....	.....	.....	.....	.....	12.34	12.43	12.43	12.34
76	3.19	.....	.....	.....	.....	.....	.....	.....	.....	12.24	12.43	12.43	12.24
77	9.39	.....	.....	.....	.....	.....	.....	.....	.....	12.36	12.43	12.43	12.36
78	4.96	.....	.....	.....	.....	.....	.....	.....	.....	12.36	12.43	12.43	12.36
79	5.75	.....	.....	.....	.....	.....	.....	.....	.....	12.36	12.43	12.43	12.36
80	14.32	2.39	10.31	2.88	13.19	13	.....	.....	.....	.....	.....	13.00	13.19
81	14.02	.67	6.73	1.96	8.69	8	1.92	2.33	2	1.55	1	14.20	16.30
82	11.82	.55	6.82	2.29	9.11	8	2.08	2.53	2½	2.29	2	16.50	17.98
83	12.22	2.80	10.29	2.80	13.09	13	.....	.....	.....	.....	.....	13.00	13.09
	12.13	2.72	8.78	4.11	12.89		.....	.....	.....	.....	.....		12.89
	14.48	2.33	9.17	3.15	12.32		.....	.....	.....	.....	.....		12.32
84	15.16	1.41	7.75	1.10	8.85	9	1.72	2.09	2	1.88	1	15.20	16.16
	11.82	1.50	7.11	1.75	8.86		1.74	2.11		1.78			16.13
	14.43	2.41	5.62	2.33	7.95		1.75	2.12		1.89			15.35
85	14.38	1.88	7.47	1.05	8.52	9	2.17	2.63	2½	4.27	2½	18.00	19.63
86	See page 19												
87	12.04	1.46	6.14	3.16	9.30	8	2.13	2.59	2	2.82	1	14.20	18.85
	18.15	3.33	7.48	3.52	11.00		2.28	2.77		1.33			19.53
88	11.80	2.55	7.74	2.45	10.19	8	1.96	2.38	2	1.60	1	14.20	17.98
	18.33	1.73	7.83	2.30	10.13		2.06	2.50		1.79			18.42
89	15.50	.54	11.37	2.02	13.39	13	.....	.....	.....	2.45	2	15.00	15.84
90	12.52	2.38	6.64	2.51	9.15	9.24	1.94	2.36	2½	2.89	3	18.74	18.18
	11.94	2.47	6.78	2.52	9.25		1.96	2.38		2.71			18.15
91	12.81	1.25	7.71	2.59	10.30	10	2.65	3.22	3	2.81	2	19.80	21.48
92	13.93	1.88	7.69	1.39	9.08	8	1.68	2.04	2	2.19	2	15.20	16.57

Station Number.	Name of Brand.	Address of Manufacturer or Agent.	Sampled at	
6683 6796	Navassa Acid Phosphate, 13 per cent.,	Navassa Guano Co., Wilmington, N. C.	McFarlan Tarboro	93
6864	Navassa Acid Phosphate, 11 per cent.,	Navassa Guano Co., Wilmington, N. C.	Smithfield.	94
F7017 F7152	Navassa Acid Phosphate, 12 per cent.,	Navassa Guano Co., Wilmington, N. C.	Lexington Greensboro	95
F7026 F7148	Navassa Grain Fertilizer	Navassa Guano Co., Wilmington, N. C.	Salisbury China Grove	96
6908	N. C. Alliance Tobacco Fertilizer,	W. S. Powell & Co., Baltimore, Md.	Saxon	97
6777	N. C. Farmers' Alliance Offic'l Dissolved Bone Phosphate,	Durham Fertilizer Co., Durham, N. C.	Statesville	98
6818 6820 6832 6883 6929 6948 6935 F7032	N. C. Official Farmer's Alliance Guano,	Durham Fertilizer Co., Durham, N. C.	Elizabeth City Princeton. Apex Ellisboro Mebaneville Oxford Hot Springs Hickory	99
6888	Ober's Dissolved Bone Phosphate,	G. Ober & Son's Co., Baltimore, Md	Winston	100
6782	Ober's Farmers' Standard Ammoniated Phosphate,	G. Ober & Son's Co., Baltimore, Md	Pittsboro	101
6790	Ober's Special Cotton Compound,	G. Ober & Son's Co., Baltimore, Md	Shelby	102
F7014	Old Dominion Dissolved Bone and Potash,	Old Dominion Guano Co., Norfolk, Va.	Concord	103
6654 6801 F7027	Old Dominion Soluble Guano	Old Dominion Guano Co., Norfolk, Va.	Raleigh Fayetteville Concord	104
6819 6865	Old Dominion 10 per cent. Acid Phosphate,	Old Dominion Guano Co., Norfolk, Va.	Dunn La Grange	105
6784	Oriole High Grade Fertilizer	Chesapeake Guano Co., Baltimore, Md.	Jonesboro	106
6681 6759 F7021	Our Acid Phosphate (Dissolved S. C. Bone),	Atlantic and Virginia Fertilizing Co., Richmond, Va.	Wadesboro Scotland Neck Lexington	107
6671	Owl Brand Guano	Davie & Whittle, Petersburg, Va.	Selma	108
6745	Owl Brand Special Tobacco Guano,	Davie & Whittle, Petersburg, Va.	Oxford	109
6806 6842	Palmetto Acid Phosphate	Bradley Fertilizer Co., Boston, Mass	Edenton Tarboro	110
6672	Patapsco Guano	Patapsco Guano Co., Baltimore, Md	Selma	111
6808	Peruvian Mixture	American Fertilizer Co., Norfolk, Va.	Elizabeth City	112

	Water.	Insoluble Phos. Acid.	Soluble Phos. Acid.	Reverted Phos. Acid.	Total Avail. Phos. Acid. Found.	Total Avail. Phos. Acid. Guaranteed.	Nitrogen.	Equivalent to Ammonia Found.	Equivalent to Ammonia Guaranteed.	Potash. Found.	Potash. Guaranteed.	Rel. Com. Val. Per Ton of Ingredients at Seaboard. Guaranteed.	Rel. Com. Val. Per Ton of Ingredients at Seaboard. Found.
93	13.20	3.08	10.58	2.27	12.85	13	.....	.....	.....	.....	.....	$ 13.00	$ 12.85
	14.48	3.97	8.84	2.85	11.69		.....	.....	.....	.....	.....		11.69
94	13.35	2.46	9.44	3.77	13.21	11	.....	.....	.....	.....	.....	11.00	13.21
95	14.70	1.45	8.32	5.36	13.68	12	.....	.....	.....	.....	.....	12.00	13.68
	16.35	2.58	9.71	1.96	11.67		.....	.....	.....	.....	.....		11.67
96	15.44	1.96	5.53	4.28	9.81	8	1.65	2.00	2	2.22	2	15.20	17.23
	13.98	2.92	5.44	3.64	9.08		1.79	2.17		2.30			17.02
97	6.07	5.86	.55	3.59	4.14	8	1.84	2.23	2½	2.97	3	17.50	12.91
98	20.07	.41	11.40	1.12	12.82	13	.....	.....	.....	.....	.....	13.00	12.82
99	12.58	2.23	6.50	1.44	7.94	8	2.18	2.65	2½	2.77	3	17.50	17.60
	11.60	3.26	4.44	1.87	6.31		2.10	2.55		2.87			15.81
	12.04	.72	6.95	1.46	8.41		2.11	2.56		2.80			17.86
	12.59	2.57	6.61	1.91	8.52		2.11	2.56		2.90			18.08
	11.31	3.49	4.63	1.96	6.59		1.98	2.40		2.24			15.07
	10.98	3.49	4.39	1.84	6.23		1.72	2.09		2.10			13.76
	11.33	2.57	5.80	1.83	7.63		2.11	2.56		3.10			17.39
	12.28	1.66	5.91	3.10	9.01		1.66	2.02		2.42			16.68
100	13.52	2.24	8.67	4.62	13.29	13	.....	.....	.....	.....	.....	13.00	13.29
101	16.34	1.48	7.59	1.62	9.21	8	1.98	2.40	2	2.32	1.40	14.60	17.77
102	16.70	1.01	8.09	2.04	10.13	8	2.01	2.44	2	1.86	1.40	14.60	18.33
103	16.02	.65	5.01	4.02	9.03	8½	.....	.....	.....	2.10	2	10.50	11.13
104	12.50	1.96	5.91	2.31	8.22	8	2.02	2.45	2¼	2.61	2	15.85	17.20
	16.39	1.56	6.59	2.17	8.76		1.82	2.21		2.46			16.97
	17.73	1.14	5.63	1.87	7.50		1.98	2.40		2.32			16.06
105	17.38	.50	6.06	3.27	9.33	10	.....	.....	.....	.....	.....	10.00	9.33
	16.55	.61	4.34	4.91	9.25		.....	.....	.....	.....	.....		9.25
106	12.89	2.23	7.60	1.61	9.21	9	2.16	2.62	2½	2.67	2	17.50	18.69
107	13.01	1.98	7.23	3.32	10.65	10	.....	.....	.....	.....	.....	10.00	10.65
	13.68	3.32	7.64	3.64	11.28		.....	.....	.....	.....	.....		11.28
	14.10	2.92	4.06	6.26	10.32		.....	.....	.....	.....	.....		10.32
108	16.81	1.47	6.33	2.45	8.78	8½	1.71	2.08	2	1.45	1	14.70	15.64
109	17.19	1.32	6.77	1.56	8.33	8	2.37	2.88	2¼	2.37	1¾	15.60	18.19
110	14.67	1.54	10.46	2.20	12.66	13	.....	.....	.....	.....	.....	13.00	12.66
	14.64	1.83	10.86	1.68	12.54		.....	.....	.....	.....	.....		12.54
111	15.80	1.62	8.35	1.04	9.39	9¼	2.11	2.56	2½	2.07	1¼	17.00	18.12
112	14.43	1.11	8.11	1.01	9.12	8	1.72	2.09	2	1.79	1½	14.70	16.34

Station Number.	Name of Brand.	Address of Manufacturer or Agent.	Sampled at	
6720	Peruvian Substitute, Genuine	Durham Fertilizer Co., Durham, N. C.	Clinton	113
6872 6926	Piedmont Guano for Tobacco	Mt. Airy Manufacturing Co., Baltimore, Md.	Leaksville Mebaneville	114
6803 6875	Piedmont Guano—Special Fertilizer,	Mt. Airy Manufacturing Co., Baltimore, Md.	Lilesville Leaksville	115
6653 6656	Pine Island Ammon'ted Phosphate,	Quinnipiac Co., New York, N. Y.	Raleigh Wilmington	116
6658 6722	Plow Brand Raw Bone Superposphate,	Walton & Whann Co., Wilmington, Del.	Wilmington Wadesboro	117
6704	Pocomoke Superphosphate	E. B. Freeman & Co., Norfolk, Va.	Dunn	118
6848	Powell's Yellow Bag Fertilizer for Tobacco,	W. S. Powell & Co., Baltimore, Md.	Warrenton	119
6849	Prolific Cotton Guano	Lazaretto Guano Co., Baltimore, Md	Warrenton	120
6701	Prolific Cotton Grower	Goldsboro Oil Co., Goldsboro, N. C.	Dunn	121
6742	Prolific Cotton Guano	G. W. Grafflin, Baltimore, Md	Scotland Neck	122
6781 6826	Raleigh Standard Guano	Raleigh Oil Mills and Fertilizer Co., Raleigh, N. C.	Apex Clayton	123
6680 F7031	Rasin's Acid Phosphate	Rasin Fertilizer Co., Baltimore, Md	Franklinton Conover	124
6697 6712	Red Navassa Guano, Ammoniated,	Navassa Guano Co., Wilmington, N. C.	Dunn Tarboro	125
6787	Reeses's A1 Guano	John S. Reese & Co., Baltimore, Md	Laurinburg	126
6871	Reese's Challenge Tobacco Grower,	John S. Reese & Co., Baltimore, Md	Leaksville	127
6814 F7024	Reese's Dissolved Bone Phosphate,	John S. Reese & Co., Baltimore, Md	Ore Hill Winston	128
6689	Reese's Pacific Guano	John S. Reese & Co., Baltimore, Md	Wake Forest	129
6874	Reese's Pacific Guano for Tobacco,	John S. Reese & Co., Baltimore, Md	Leaksville	130
6791	Reliance Ammoniated Superphosphate,	Walton & Whann Co., Wilmington, Del.	Shelby	131
F7023	Roanoke Dissolved Bone Phosphate,	Benj. H. Read, Baltimore, Md.	Winston	132
6717 6817 F7018	Royster's High Grade Acid Phosphate,	Old Dominion Guano Co., Norfolk, Va.	Kinston La Grange High Point	133
6692 6699	Sea Fowl Guano (B, D.)	Wm. L. Bradley, Boston, Mass	Franklinton Dunn	134
6844	Slingluff's Dissolved Bone for Home Fertilizer,	Boykin, Carmer & Co., Baltimore, Md.	Washington	135

	Water.	Insoluble Phos. Acid.	Soluble Phos. Acid.	Reverted Phos. Acid.	Total Avail. Phos. Acid.		Nitrogen.	Equivalent to Ammonia		Potash.		Rel. Com. Val. Per Ton of Ingredients at Seaboard.	
					Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.	Guaranteed.	Found.
113	7.47	See	foot	note,	page	18	6.08	7.38	7	.....	.....	$ 18.20	$ 19.19
114	8.69	2.35	5.59	1.92	7.51	8	2.09	2.54	2½	3.24	3	17.50	17.35
	8.26	2.87	5.27	1.95	7.22		2.09	2.54		3.23			17.05
115	9.71	2.26	4.98	2.25	7.23	8	1.65	2.00	2	1.16	1	14.20	13.59
	7.84	2.58	5.48	2.24	7.72		1.70	2.06		1.36			14.44
116	16.84	1.13	7.18	2.09	9.27	8	2.08	2.53	2	1.35	1	14 20	17.20
	18.72	1.54	6.65	1.93	8.58		1.99	2.42		1.25			16·12
117	12.45	3.08	6.46	2.36	8.82	9	2.27	2.76	2½	2.28	1¾	17.25	18.28
	13.69	2.62	6.14	3.11	9.25		2.27	2.76		2.25			18.68
118	15.15	1.43	7.97	1.04	9.01	8½	1.76	2.14	2	1.89	1½	15.20	16.46
119	9.74	.86	3.56	1.31	4.87	4	2.74	3.33	5	5.57	6	23.00	19.10
120	16.11	1.75	8.15	.86	9.01	9	2.17	2.63	2	1.71	1½	15.70	17.56
121	12.11	.67	5.94	2.68	8.62	8	2.24	2.72	2½	2.29	2	16.50	17.98
122	15.69	1.52	8.02	.80	8.82	9	1.76	2.14	2	1.71	1	15.20	16.09
123	11.28	2.38	6.87	2.70	9.57	8	2.00	2.43	2¼	2.23	2	17.15	18.12
	9.01	1.66	6.24	3.13	9.37		2.18	2.65		2.03			18.29
124	14.64	.17	11.78	2.28	14.06	14	.....	... .	.....	.....	.....	14.00	14.06
	15.85	.13	11.37	2.51	13.88								13.88
125	14.04	2.01	7.37	3.85	11.22	9	1.79	2.17	2	1.61	1¼	15.45	18.47
	14.09	2.06	8.75	1.82	10.57		1.71	2.98		1.61			17.59
126	19.29	1.27	1.02	8.44	9.46	8½	1.75	2.12	2¼	1.20	1¼	15.60	16.17
127	11.83	3.65	6.60	3.44	10.04	9	2.00	2.43	2	2.01	2	16.20	18.37
128	12.21	4.16	5.40	6.98	12.38	13	.....	....	.....	.....	.....	13.00	12.38
	13.20	1.14	10.61	3.41	14.02		.....	.....	.....	.....	.....		14 02
129	13.34	.69	4.09	6.27	10.36	8½	2.26	2.74	2¼	1.73	1.20	15.55	19.21
130	10.89	3.28	6.14	3.44	9.58	8½	2.77	3.36	3	2.80	2½	18.80	21.12
131	12.78	1.97	6.52	2.46	8.98	8	1.53	1.86	2	2.04	1½	14.70	15.86
132	12.97	2.46	8.47	4.45	12.92	14½	.....	....	.....	.....	.....	14 50	12.92
133	11.52	1.69	7.19	4.68	11.87	12	.....	....	.....	....	.....	12.00	11.87
	16.06	.38	7.65	3.64	11.29		.....	....	.....	.....	.....		11.29
	16.10	3.34	6.97	4.27	11.24		.....	.....	.....	.....	.....		11.24
134	16.00	1.50	7.66	2.01	9.67	9.45	2.18	2.65	2.40	1.54	1	16.69	18.10
	17.50	1.56	7.78	1.94	9.72		2.07	2.51		1.54			17.79
135	12.12	2.10	9.59	1.81	11.10	13½	2.01	2.44	2	.....	.....	18.70	17.74

Station Number.	Name of Brand.	Address of Manufacturer or Agent.	Sampled at	
6736	Special Compound for Tobacco – Phosphates and Alkalis,	G. Ober & Son's Co., Baltimore, Md	Greenville	136
6860	Stag Superphosphate of Lime	R. J. Baker & Co., Baltimore, Md	Murfreesboro	137
6786	Standard Cotton Grower	Everett Bros., Gibson & Co., Norfolk, Va.	Gibson	138
6691 6764 F7028 F7147	Star Brand Guano	Allison & Addison, Richmond, Va.	Franklinton Greensboro Lexington A lbemarle	139
6765 6846	Star Brand Special Tobacco Manure,	Allison & Addison, Richmond, Va.	Greensboro Rocky Mount	140
6778	Stonewall Brand Acid Phosphate,	J. G. Tinsley & Co., Richmond, Va	Huntersville	141
6724	Stonewall Brand Fertilizer	J. G. Tinsley & Co., Richmond, Va.	Matthews'	142
6731	Stono Acid Phosphate	Stono Phosphate Co., Charleston, S. C.	Matthews'	143
6730	Stono Dissolved Bone	Stono Phosphate Co., Charleston, S. C.	Matthews'	144
6726 6855	Stono Soluble Guano	Stono Phosphate Co., Charleston, S. C.	Matthews' Monroe	145
6709 6822	Tinsley's Tobacco Fertilizer	J. G. Tinsley & Co., Richmond, Va.	Wilson Greenville	146
6661 6732 6770	Truckers' Delight	Chemical Co. of Canton, Baltimore, Md.	Wilmington Charlotte Scotland Neck	147
6662	Truckers' Favorite	Baltimore Guano Co., Baltimore, Md	Wilmington	148
6847	Vegetator	Miller, Lippincott & Co., Baltimore, Md.	Warrenton	149
6673	Walker's Ammon. Phosphate	Joshua Walker, Baltimore, Md.	Selma	150
6682 F7016	Wando Acid Phosphate	Wando Phosphate Co., Charleston, S. C.	Wadesboro Shelby	151
6727 F7025	Wando Soluble Guano	Wando Phosphate Co., Charleston, S. C.	Wadesboro Shelby	152
6695 6797 6853	Wilcox, Gibbs & Co.'s Manipulated Guano,	Wilcox & Gibbs Guano Co., Charleston, S. C.	Morven Mt. Holly Red Springs	153
6746	Zell's Ammoniated Bone Superphosphate,	Zell Guano Co., Baltimore, Md.	Pineville	154

6779 contains 21.40 pr. ct. total phos. acid; 21 guaranteed. This is not included in valuation.
7013 " 24.92 " " " " 18 " " " "
6870 " 45.63 " phosphate lime; 35 " " " "
7150 " 45.74 " " " " 35 " " " "
6720 " 30.99 " " " " 30 " " " "

	Water.	Insoluble Phos. Acid.	Soluble Phos. Acid.	Reverted Phos. Acid.	Total Avail. Phos. Acid. Found.	Total Avail. Phos. Acid. Guaranteed.	Nitrogen.	Equivalent to Ammonia. Found.	Equivalent to Ammonia. Guaranteed.	Potash. Found.	Potash. Guaranteed.	Rel. Com. Val. Per Ton of Ingredients at Seaboard. Guaranteed.	Rel. Com. Val. Per Ton of Ingredients at Seaboard. Found.
136	16.75	1.79	7.98	1.12	9.10	8	2.59	3.14	2½	2.78	2	$ 16.50	$ 20.01
137	13.46	4.76	4.48	2.67	7.15	8	2.16	2.62	3	3.15	3	18.80	17.11
138	15.17	1.36	8.10	2.10	10.20	8	1.79	2.17	2	1.86	2	15.20	17.70
139	17.20	1.46	6.64	1.67	8.31	8	1.75	2.12	2	1.40	1¼	14.45	15.22
	15.79	1.65	6.57	1.35	7.92		1.73	2.10		1.44			14.82
	15.45	2.74	6.79	1.88	8.67		1.86	2.26		1.35			15.90
	10.67	2.62	6.91	2.14	9.05		1.98	2.40		1.05			16.34
140	15.23	1.87	7.97	1.65	9.62	9	2.26	2.74	2¾	1.65	1¼	14.70	18.39
	14.66	2.09	7.92	1.64	9.56		2.31	2.80		1.63			18.47
141	15.12	1.57	8.33	2.13	10.46	10	.....	.....	.....	.....	.....	10.00	10.46
142	13.52	1.46	7.59	.71	8.30	8	1.66	2.02	2	2.45	2	12.20	16.00
143	13.49	1.70	9.72	2.00	11.72	10	.....	.....	.....	1.50	1	11.00	13.22
144	12.00	3.02	10.39	2.08	12.47	13	.....	.....	.....	.....	.....	13.00	12.47
145	12.91	3.68	7.61	1.00	8.61	8	2.04	2.48	2½	1.14	1	15.50	16.20
	13.76	3.84	7.67	1.00	8.67		2.02	2.45		1.09			16.13
146	12.18	1.04	7.71	1.41	9.12	8	3.26	3.96	4	2.88	2½	20.90	22.30
	11.98	1.41	7.52	1.30	8.82		3.04	3.69		2.22			20.63
147	12.46	1.68	6.93	.61	7.54	8	4.39	5.33	6	3.85	4	27.60	25.25
	14.11	1.25	6.18	1.16	7.34		4.38	5.32		5.11			26.28
	13.13	.88	6.36	.22	6.58		4.70	5.71		6.26			27.69
148	12.54	1.20	6.04	1.06	7.10	7	4.71	5.72	6	4.64	4	26.60	26.67
149	11.11	2.78	7.04	3.23	10.27	10	1.81	2.20	2	1.02	1	16.20	17.01
150	17.32	1.50	7.61	1.39	9.00	9	2.11	2.56	2½	2.29	1¾	17.25	17.95
151	11.91	3.86	9.94	1.67	11.61	11½	.....	.....	.....	.....	.....	11.50	11.61
	15.45	.91	9.40	4.85	14.25		.....	.....	.....	.....	.....		14.25
152	11.67	3.89	7.60	1.51	9.11	9	2.00	2.43	2¼	1.64	1½	16.35	17.07
	13.30	4.38	6.97	2.24	9.21		1.91	2.32		1.59			16.83
153	12.20	2.48	6.31	2.35	8.66	8	1.90	2.31	2½	2.96	2	16.50	17.63
	12.57	2.93	4.57	3.04	7.61		2.00	2.43		2.96			16.89
	12.93	1.38	5.86	2.47	8.33		2.03	2.46		2.63			17.36
154	14.49	2.92	6.82	2.03	8.85	8	1.74	2.11	2	1.34	1	14.20	15.68

LEE'S PREPARED AGRICULTURAL LIME.—This fertilizer cannot be classed as other commercial fertilizers. A sample taken at Mount Airy, analyzed—

Moisture @ 212 F.	10.70 per cent.
Sulphate of lime	14.31 "
Potash 2.05 per cent., equivalent to sulphate of potash	3.79 "
Sodium chloride (common salt)	9.85 "
Chloride of lime	1.85 "
Carbonate of lime	15.76 "
Lime, existing in hydrate and oxide	22.70 "
Combined water and undetermined matter	21.04 "
	100.00

OFFICIAL FERTILIZER ANALYSES.